

**AMENDMENTS TO THE SPECIFICATION**

Please replace the first paragraph on page 1 of the specification with the following new paragraph:

This application is a continuation of and claims the benefit of U.S. Application No. 09/559,671, filed April 27, 2000, (now U.S. Patent No. 6,613,514), which is a continuation of U.S. Application No. 08/769,062, filed December 18, 1996 (now U.S. Patent No. 6,335,160), the disclosures of which are incorporated by reference herein in their entireties for all purposes.

Please replace the text on page 83, line 8 through page 86, line 5, with the following:

1. AACCCCTCCAG TTCCGAACCC CATATGATGA TCACCCTGCG TAAACTGCCG  
(SEQ ID NO:1)
2. AACCCCTCCAG TTCCGAACCC CATATGAAAA AAACCGCT (SEQ ID NO:2)
3. AACCCCTCCAG TTCCGAACCC ATATACATAT GCGTGCTAAA (SEQ ID NO:3)
4. AACCCCTCCAG TTCCGAACCC CATATGAAAT ACCTGCTGCC GACC (SEQ ID NO:4)
5. AACCCCTCCAG TTCCGAACCC GATATACATA TGAAACAGTC (SEQ ID NO:5)
6. TGGTGTTATG TCTGCTCAGG CDATGGCDGT DGAYTTYCAY CTGGTTCCGG  
TTGAAGAGGA (SEQ ID NO:6)
7. GGCTGGTTTC GCTACCGTTG CDCARGCDGC DCCDAARGAY CTGGTTCCGG  
TTGAAGAGGA (SEQ ID NO:7)

8. CACCCCGATC GCTATCTCTT CYTTYGCDTC YACYGGYTCY CTGGTTCCGG  
TTGAAGAGGA (SEQ ID NO:8)

9. GCTGCTGGCT GCTCAGCCGG CDATGGCDAT GGAYATYGGY CTGGTTCCGG  
TTGAAGAGGA (SEQ ID NO:9)

10. TGCCGCTGCT GTTCACCCCG GTDACYAARG CDGCDCARGT DCTGGTTCCG  
GTTGAAGAGG A (SEQ ID NO:10)

11. CCCGGCTTTC TGGAACCGTC ARGCDGCDCA RGCDCTGGAC  
GTTGCTAAAA AACTGCAGCC (SEQ ID NO:11)

12. ACGTTATCCT GTTCCTGGGT GAYGGYATGG GYGTDCCDAC CGTTACCGCT  
ACCCGTATCC (SEQ ID NO:12)

13. AAACTGGGTC CGGAAACCCC DCTGGCDATG GAYCARTTYC  
CGTACGTTGC TCTGTCTAAA (SEQ ID NO:13)

14. GGTTCCGGAC TCTGCTGGTA CYGCDACYGC DTAYCTGTGC  
GGTGTAAAG GTAACTACCG (SEQ ID NO:14)

15. CTGCTCGTTA CAACCAGTGC AARACYACYC GYGGYAAYGA  
AGTTACCTCT GTTATGAACC (SEQ ID NO:15)

16. TCTGTTGGTG TTGTTACAC YACYCGYTD CARCAYGCDT CTCCGGCTGG  
TGCTTACGCT (SEQ ID NO:16)

17. GTACTCTGAC GCTGACCTGC CDGCDGAYGC DCARATGAAC  
GGTTGCCAGG ACATCGCTGC (SEQ ID NO:17)

18. ACATCGACGT TATCCTGGGT GGYGGYCGYA ARTAYATGTT CCCGGTTGGT  
ACCCCGGACC (SEQ ID NO:18)

19. TCTGTTAACG GTGTTCGTAA RCGYAARCAR AAYCTGGTDC AGGCTTGGCA  
GGCTAACAC (SEQ ID NO:19)

20. GAACCGTACC GCTCTGCTGC ARGCDGCDGA YGAYTCYTCT  
GTTACCCACC TGATGGGTCT (SEQ ID NO:20)

21. AATACAACGT TCAGCAGGAC CAYACYAARG AYCCDACYCT  
GCAGGAAATG ACCGAAGTTG (SEQ ID NO:21)

22. AACCCGCGTG GTTTCTACCT GTTYGTDGAR GGYGGYCGYA  
TCGACCACGG TCACCACGAC (SEQ ID NO:22)

23. GACCGAAGCT GGTATGTTCG AYAAAYGCDAT YGCDAARGCT  
AACGAACTGA CCTCTGAAC (SEQ ID NO:23)

24. CCGCTGACCA CTCTCACGTT TTYTCYTTYG GYGGYTAYAC CCTGCGTGGT  
ACCTCTATCT (SEQ ID NO:24)

25. GCTCTGGACT CTAATCTTA YACYTCYATY CTGTAYGGYA  
ACGGTCCGGG TTACGCTCTG (SEQ ID NO:25)

26. CGTTAACGAC TCTACCTCTG ARGAYCCDTC YTAYCARCAG CAGGCTGCTG  
TTCCGCAGGC (SEQ ID NO:26)

27. AAGACGTTGC TGTTTCGCT CGYGGYCCDC ARGCDCAYCT GGTCACGGT  
GTTGAAGAAG (SEQ ID NO:27)

28. ATGGCTTCG CTGGTTGCGT DGARCCDTAY ACYGAYTGYA  
ACCTGCCGGC TCCGACCACC (SEQ ID NO:28)

29. TGCTCACCTG GCTGCTT MAC CDCCDCCDCT GGCDCTGCTG GCTGGTGCTA  
TGCTGCTCCT C (SEQ ID NO:29)

30. TTCCGCCTCT AGAGAATTCT TARTACAGRG THGGHGCCAG  
GAGGAGCAGC ATAGCACCAG CC (SEQ ID NO:30)

31. AAGCAGCCAG GTGAGCAGCG TCHGGRATRG ARGTHGCGGT  
GGTCGGAGCC GGCAGGTT (SEQ ID NO:31)

32. CGCAACCAGC GAAAGCCATG ATRTGHGCHA CRAARGTYTC  
TTCTTCAACA CCGTGAACCA (SEQ ID NO:32)

33. GCGAAAACAG CAACGTCTTC RCCRCCRTGR GTYTCRGAHG  
CCTGCOGAAC AGCAGCCTGC (SEQ ID NO:33)

34. AGAGGTAGAG TCGTTAACGT CHGGRCGRGA RCCRCCRCCC  
AGAGCGTAAC CCGGACCGTT (SEQ ID NO:34)

35. AAGATTAGA GTCCAGAGCT TTRGAMGGHG CCAGRCCRAA  
GATAGAGGTA CCACGCAGGG (SEQ ID NO:35)

36. ACGTGAGAGT GGTCAGCGGT HACCAGRATC AGRGTRTCCA  
GTTCAGAGGT CAGTCGTTA (SEQ ID NO:36)

37. GAACATACCA GCTTCGGTCA GHGCCATRTA HGCYTTRTCG TCGTGGTGAC  
CGTGGTCGAT (SEQ ID NO:37)

38. GGTAGAAACC ACGCGGGTTA CGRGAHACHA ORCGCAGHGC  
AACTTCGGTC ATTTCTTGCA (SEQ ID NO:38)

39. TCCTGCTGAA CGTTGTATT CATRTCHGCH GGYTCRAACA GACCCATCAG  
GTGGGTAACA (SEQ ID NO:39)

40. CAGCAGAGCG GTACGGTTCC AHACRTAYTG HGCRCCTYTG  
TGTTTAGCCT GCCAAGCCTG (SEQ ID NO:40)

41. TACGAACACC GTTAACAGAA GCRTCRTCHG GRTAYTCHGG  
GTCCGGGGTA CCAACCGGGA (SEQ ID NO:41)

42. CCCAGGATAA CGTCGATGTC CATRTTRTT ACCAGYTGHG CAGCGATGTC  
CTGGCAACCG (SEQ ID NO:42)

43. CAGGTCAAGCG TCAGAGTACC ARTTRCGRTT HACRGTRTGA  
GCGTAAGCAC CAGCCGGAGA (SEQ ID NO:43)

44. TGGTAACAAC ACCAACAGAT TTRCCCHGCYT TYTTHGCRCG GTTCATAACA  
GAGGTAACCT (SEQ ID NO:44)

45. CACTGGTTGT AACGAGCAGC HGCRAHACR CCRATRGTRC  
GGTAGTTACC TTTAACACCG (SEQ ID NO:45)

46. ACCAGCAGAG TCCGGAACCT GRCGRTCHAC RTTRTARGTT  
TTAGACAGAG CAACGTACGG (SEQ ID NO:46)

47. GGGTTCCGG ACCCAGTTA CCRTTCATYT GRCCYTTCA GATACGGGT  
GCGGTAACGG (SEQ ID NO:47)

48. CCCAGGAACA GGATAACGTT YTTHGCHGCR GTYTGRATHG  
GCTGCAGTTT TTTAGCAACG (SEQ ID NO:48)

49. ACGGTTCCAG AAAGCCGGT CTTCCTCTTC AACCGGAACC AG (SEQ ID  
NO:49)

50. CCTGAGCAGA CATAACACCA GCHGCHACHG CHACHGCCAG  
CGGCAGTTA CGCAGGGTGA (SEQ ID NO:50)

51. ACCGGGGTGA ACAGCAGCGG CAGCAGHGCC AGHGCRATRG  
TRGACTGTTT CATATGTATA TC (SEQ ID NO:51)

52. GCCGGCTGAG CAGCCAGCAG CAGCAGRCCH GCHGCHGCCG  
TCGGCAGCAG GTAGTTCA (SEQ ID NO:52)

53. AAGAGATAGC GATCGGGGTG GTCAGHACRA TRCCCAGCAG  
TTTAGCACGC ATATCTATAT (SEQ ID NO:53)

54. CAACGGTAGC GAAACCAGCC AGHGCHACHG CRATHGCRAT  
AGCGGTTTT TTCATATG (SEQ ID NO:54)

55 AGAATTCTCT AGAGGCGGAA ACTCTCCAAC TCCCAGGTT (SEQ ID NO:55)

56. TGAGAGGTTG AGGGTCCAAT TGGGAGGTCA AGGCTTGGG (SEQ ID NO:56)

Please replace the text on page 86, line 24 to page 87, line 5 with the following:

Genomic antibody expression shuttle vectors similar to those described by Gascoigne et al. (Proc. Natl. Acad. Sci. (U.S.A.) 84:2936-2940 (1987)) are constructed such that libraries of mutant V region exons can be readily cloned into the shuttle vectors. The kappa construct is cloned onto a plasmid encoding puromycin resistance and the heavy chain is cloned onto a neomycin resistance encoding vector. The cDNA derived variable region sequences encoding the mature and germline heavy and light chain V regions are reconfigured by PCR mutagenesis into genomic exons flanked by Sfi I sites with complementary Sfi I sites placed at the appropriate locations in the genomic shuttle vectors. The oligonucleotides used to create the intronic Sfi I sites flanking the VDJ exon are:

5' Sfi I: 5'-TTCCATTCA TACATGGCCG AAGGGGCCGT  
GCCATGAGGA TTTT-3' (SEQ ID NO:100);  
3' Sfi I: 5'-TTCTAAATG CATGTTGGCC TCCTTGGCCG

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GATTCTGAGC CTTCAGGACC A-3' (SEQ ID NO:100).